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ATTN :

MSD 25-59  
26 February 1959  
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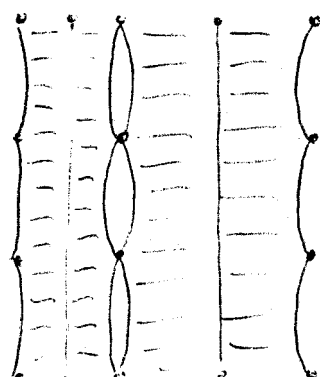
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Chief, Military-Scientific Division, PIC

# Variations of Fishbone Antennas.

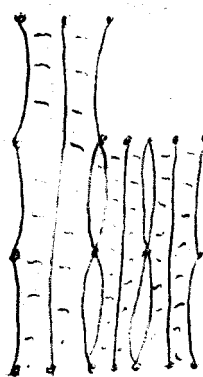
1. In the process of preparing a photographic intelligence study on communications in the Tashkent area, it was noted that two variations exist in the fishbone antenna which had not been previously noted on photography. We believe that this information should be brought to your attention.

2. The variations noted are diagramed below:



Day Night

Variation A



Night Day

Variation B

3. The above variations are described in G. S. Ajsenberg's book, "Antennas for Trunkline Radio Communications" pages 326-329. He describes these fishbone variations as several arrays mounted on the same supports which in practice provide reception of both day time and night time frequencies. He further states that to reduce the horizontal lobe pattern two parallel connected arrays are generally used in the day time frequencies (see Variation B).

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